

# CIRCUIT ANALYSIS

#### INTRODUCTION TO AC AND DC CIRCUIT ANALYSIS

#### Definitions

- ELECTRICAL CHARGE has four characteristics: I. Its magnitude is measured in condombs (C). The charge carried by an electron is q, =-1.60 10 PC A protest has the same amount of charge, but with
- positive polarity. 2. Charges are, therefore, of two types: positive and
- 3. Charges exist in discrete, integral multiples of A.g.,
- 4. Charges are conserved: They can be neither created. more digrateopy and
- CURRENT. In an electric circuit, the chorses movealong specified, closed paths. The motion of charges constitutes an electric conduction current. Current is measured in amperes (conformb/sec). That is, one ampere is the current that flows when one coulomb of charge flows per second. Or, current I/O in amperes is:
- $I(t) = \frac{dq(t)}{dt}$  ampones, where q(t) is the charge in coulombs, and t is the time in seconds.
- Conventions: A negative quantity of charge traveling from B to A along a conductor is equivalent to a positive quantity of charge going from A to B. Hence, current is a vector.
- Unidirectional transfer of electric charge through a conductor constitutes the direct electric current, or de. This is in contrast to ac (alternating current) which implies a time-reversal of direction of current south as a singuotidal wave,
  - VOLTAGE. Voltage difference (also known as potential difference) between two points is defined as the work [w(x) in joules] required to move a unit charge from one point to the other The unit of potential difference is the volt (F). Voltage (v) can be positive or negative.

Note that: 
$$v(t) = \frac{dw(t)}{dq}$$
 solt

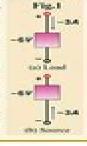
POWER. Power p(t) is the rate of doing work or the rate of change of energy. The electrical unit of power in the water a William

$$\rho(t) = \frac{dw(t)}{dt} \text{ joule sec or suits}$$

Note: 
$$v(t) I(t) = \frac{dw'(t) dq}{dq} = \frac{dw'(t)}{dt} = p(t)$$

Thus, poty-version is subject to the following sign convention: Whenever the reference direction for the current in an element is in the direction of the voltage drop across the element, see the formula p=rd. That is, the current must enter the positive terminal to use the above formula. Otherwise use proved, If p(r)>0. then the element absorbs power. If p(x) <0, then the element delivers power. See the following examples:

- In Fig. 1(a) the element is consuming absorbing 18W of powers, and in Fig. 1(b) the element is delivering EKW.
- EACT: The total power delivered must equal the total power absorbed in any circuit.
  - -BRANCH, A branch is an element (for example, resistor.) sources, etc.).
  - NODE. A node is a junction where two or more elements come together.
- GROUND. A ground in the voltage reference point which has been protection.

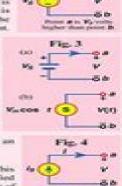


#### Ideal Independent Sources

\* IDEAL INDEPENDENT FOREIGE SOURCE. This element maintains a specified voltage between its terminals regardless of the nest of the circuit where it is

inserted. The voltage is completely independent of the current through the element. The symbol for the element is shown in Fig. 2.

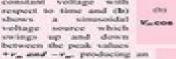
- Fig. 3 shows other sanistions of Fig. 2:
- Fig. 3(a) shows an ideal hottery which has a constant voltage with respect to time and disweltage source which owings up and down between the peak values alternative current.
- IDEAL INDEPENDENT CERRENT SOURCE. This element maintains a specified



Minimum Alle Steel Alle

Fig. 5

Fig. 8.



Ideal Dependent Sources

IDEAL DEPENDENT FORTIGE SOURCE, In a

dependent for controlled) voltage source, the voltage

across the source depends upon the voltage or current

across some other element in the network. There are

two types of controlled voltage sources:

- voltage controlled voltage source

emoter, where v, is a voltage

somewhere else in the circuit.

- current controlled voltage

and or is a constant.

IDEAL DEPENDENT

CERRENT SOURCE, In a

dependent (or controlled)

current soonce, the current

through the source depends

upon the voltage or current

through another element in the

network. There are two types

of controlled current sources:

voltage controlled current

Impre, where v, is a voltage

somewhere else in the circuit.

- current controlled current

Imply where I, is a current.

nomewhere else in the circuit.

and y's a constant.

and disca constant.

See Fig. 7.

MODEL OF

See Fig. 8.

See Fig. 5.

See Fig. 6.

content through it independent of the voltage across it. See Fig. 4.

CONDUCTANCE Resistor Symbols Conductance (G) is defined as the reciprocal of resistance: that is, G=1/R. Conductance its inconsumed in significant (ST).

Resistance & Conductance

## Ohm's Law

- OHM'S LAW (at a given temperature) is given by wwidt work, and is based on the following convention: w = AR applies whenever the reference direction for the current in the revision is inthe direction of the voltage drop across the resistor. Chiberraline uses with AR.

- RESISTANCE, A resistor

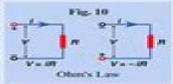
is a circuit element used to

model the resistance to the

flow of electrical change.

The unit of resistance is the

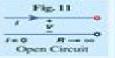
ohen denoted by ( 1.

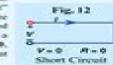


#### Open & Short Circuit

OPEN CIRCUIT. The graphical representation of an "open circuit" (R ) is shown in Fig. 11. Note: that the current can't flow due to infinite resistance. The terminals maintain an open circuit voltage.







#### weeffl, whose I, is a current 基金 somewhere else in the circuit Kirchhoff's Laws and B is a constant.

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KIRCHHOFF'S VOLTAGE LAW (KVL): The algebraic sam of all the violages around any closed publish a circuit equals pero dat every instant of time).

flows in the loop.

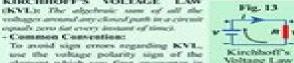
element which you first encounter in passing by that element. Example: If in Fig. 13 we choose to take the loop. clockwise, we bit the negative sign of the voltage source and the positive sign. of e. Thus -e try -0.

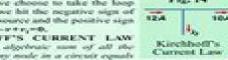
Fig. 14. 100.40 Kinghboff's Current Law

KIRCHHOFF'S CURRENT LAW EKCLit The algebraic sum of all the corrents at any male in a circuit equals some flat course business of theses.

- Common Conventions

Currents entering will be negative. Currents leaving will be positive. (Opposite method is also permitted.) if you are consistent.) Example: In Fig. 14. NCL for the mode is -12.4+10.4+1,+0.





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